

**PROGRAMMABLE CONTROLLER FOR REMOTELY
CONTROLLING INPUT POWER THROUGH A SWITCH TO A
LOAD AND AN ASSOCIATED METHOD OF OPERATION**

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ABSTRACT OF THE DISCLOSURE

A programmable controller is provided that is capable of interfacing with a remote master controller, where the programmable controller is capable of controlling an input current to at least one load that is proximate the programmable controller. The programmable controller includes at least one solid-state switch capable of

10 controllably altering the input current to the loads. The programmable controller also includes at least one measuring element for measuring at least one parameter associated with the loads and the solid-state switches, such as the current through the solid-state switches, the current through and voltage drop across the loads and/or the temperature at or around the solid-state switches. Additionally, the programmable

15 controller includes a processing element capable of controlling the solid-state switches, such as by controlling the current through the solid-state switches to the loads.

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